

ABSTRACT OF THE DISCLOSURE

A catalyst for selectively opening cyclic paraffins has been developed. The catalyst comprises a Group VIII metal, such as platinum, a modifier component, such as niobium or ytterbium, a molecular sieve, such as UZM-16 and a refractory inorganic oxide such as alumina. The Group VIII metal and modifier component are preferably deposited on the refractory inorganic oxide. A process for using the catalyst is also disclosed.